2003 Spring BRAC Major Maintenance Candidates

5/5/2003

Page Number	Major Maint Category	Ranking Number	Fed Aid Route	Structure Identifier	Owner Agency	Bridge Name	Cost Estimate	Running Total	Replace Estimate	Technical Committee Comments
1	Major Maint-Deck	5.37	On	08236400	Skagit County	SOUTH FORK BRIDGE	$250,000.00	$250,000.00	$14,000,000.00	
2	Major Maint-Deck	10.25	On	08360800	Pierce County	PUYALLUP RIVER (MLWKEE)	$400,000.00	$650,000.00	$5,500,000.00	Good use of funding.
3	Major Maint-Deck	51.5	On	08541900	SUMNER	STUCK RIVER	$200,000.00	$850,000.00	$6,000,000.00	Project appears to provide for a minimum of 15 years of service.
4	Major Maint-EandM	45.45 FO	On	08449800	Pierce County	ANDERSON IS FERRY SLIP	$1,361,800.00	$2,211,800.00	$6,500,000.00	Appears to be a reasonable project.
5	Major Maint-Scour	N/A	On	07974100	Lewis County	BOISTFORT	$70,303.00	$2,282,103.00	$5,000,000.00	
6	Major Maint-Strengthen	37.28	On	08038700	Pend Oreille County	IONE BRIDGE	$140,000.00	$2,422,103.00	$10,000,000.00	There are other repairs due, this addresses only the broken girders, checked piles, and bearings.
7	Major Maint-Strengthen	69.2 FO	On	08371000	Ferry County	TORODA	$60,000.00	$2,482,103.00	$2,400,000.00	Good strengthening project for the cost.
8	Major Maint-Paint	4.81	On	08541900	SUMNER	STUCK RIVER	$300,000.00	$2,782,103.00	$6,000,000.00	Project appears to provide for a minimum of 15 years of service.
9	Major Maint-Paint	12.35	On	08201200	Lewis County	PACKWOOD	$300,000.00	$3,082,103.00	$4,500,000.00	Good paint project
						Total Estimate:	$3,082,103.00			

2003 Spring Major Maintenance Candidates

D or P Ranking: 5.367971 **SR:** 68

Bridge Owner Name: Skagit County

Bridge Name: SOUTH FORK BRIDGE

Intersecting: SO FK SKAGIT RIVER

Strudture ID: 08236400 **Federal Highway:** ON

Latitude: 48° 20' 29" **Longitude:** 122° 21' 5"

Requester: Janice Marlega @ 360-336-9400

Total Project Costs and Start Dates:

Projected Cost : $250,000

If Maint Projected Repl: $14,000,000.00

Preliminary Engineering: 11/1/2003

Right of Way:

Construction Start: 6/1/2004

Condition Codes:

Deck: 5

Superstructure: 6 **Substructure:** 7

Inv./Opr. Rating: 29 48 **HS-20 (Tons)**

Adequacy Appraisal Codes:

Structural: 6 **Rdwy Alignment:** 6

Deck Geometry: 4 **Under Clear:** 9

Waterway: 8 **Scour:** 5

BMS Data for Deck or Paint Candidates:

Element	Description	Total Qty	Unit	CS-1	CS-2	CS-3	CS-4	%BelowCS1
12	Concrete Deck	25424	SF	3624	5000	16800	0	86

Age and Service Data:

Main/Appr Material Design: 4 02 6 02

Average Daily Traffic Year: 4290 1993

Detour Length (Miles) 20

Year Built and Rebuilt: 1972 0

Historical Significance: 4

Open/Closed/Posted: A

Number of Utilities: 1

Geometric Data:

Br Length: 908 **Curb to Curb** 28

Square feet of deck: 25424

Number of lanes on: 2

Approach Roadway Width: 44

BridgeNo: 40008

Carries: FIR ISLAND ROAD

Fed Func Class: 07

Agency Replacement Comments:

New Super Type:

New Sub Type:

Proposed Work Type: Major Maint-Deck

Proposed work: **How Many Categories:** 1 of 1

Scarify deck, remove delams and place modified PCC overlay on approximately 588' of the deck.

Technical Committee Comments:

2003 Spring Major Maintenance Candidates

D or P Ranking: 10.2547 **SR:** 46.65 SD

Bridge Owner Name: Pierce County

Bridge Name: PUYALLUP RIVER (MLWKEE)

Intersecting: PUYALLUP RIVER

Strudture ID: 08360800 **Federal Highway:** ON

Latitude: 47° 11' 54" **Longitude:** 122° 17' 12"

Requester: Don Peterson @ 253-798-3147

Total Project Costs and Start Dates:

Projected Cost :	$400,000
If Maint Projected Repl:	$5,500,000.00
Preliminary Engineering:	11/1/2003
Right of Way:	11/1/2003
Construction Start:	6/1/2004

Condition Codes:

Deck: 4

Superstructure: 6 **Substructure:** 6

Inv./Opr. Rating: 16 26 **HS-20 (Tons)**

Adequacy Appraisal Codes:

Structural: 3 **Rdwy Alignment:** 6

Deck Geometry: 3 **Under Clear:** 9

Waterway: 8 **Scour:** 5

BMS Data for Deck or Paint Candidates:

Element	Description	Total Qty	Unit	CS-1	CS-2	CS-3	CS-4	%BelowCS1
12	Concrete Deck	12272	SF	1672	9800	800	0	87

Age and Service Data:

Main/Appr Material Design: 2 05 5 02

Average Daily Traffic Year: 7150 2002

Detour Length (Miles) 2

Year Built and Rebuilt: 1961 0

Historical Significance: 4

Open/Closed/Posted: A

Number of Utilities: 3

Geometric Data:

Br Length: 472 **Curb to Curb** 26

Square feet of deck: 12272

Number of lanes on: 2

Approach Roadway Width: 26

BridgeNo: 27204A

Carries: MILWAUKEE AVENUE

Fed Func Class: 17

Agency Replacement Comments:

New Super Type:

New Sub Type:

Proposed Work Type: Major Maint-Deck

Proposed work: **How Many Categories:** 1 of 1

Remove deteriorated deck concrete and place a modified concrete overlay

Technical Committee Comments:

Good use of funding.

2003 Spring Major Maintenance Candidates

D or P Ranking: 51.5021[illegible] 4.807692[illegible] **SR:** 42.1 FO
Bridge Owner Name: SUMNER
Bridge Name: STUCK RIVER
Intersecting: STUCK RIVER
Strudture ID: 08541900 **Federal Highway:** ON
Latitude: 47° 12' 15.4" **Longitude:** 122° 14' 46.1"
Requester: Mike Dahlem @ 253-891-3308

Total Project Costs and Start Dates:

Projected Cost :	$200,000
If Maint Projected Repl:	$6,000,000.00
Preliminary Engineering:	11/1/200[illegible]
Right of Way:	4/1/2004
Construction Start:	10/1/200[illegible]

Condition Codes:

Deck: 6
Superstructure: 5 **Substructure:** 6
Inv./Opr. Rating: 20 20 **HS-20 (Tons)**

Adequacy Appraisal Codes:

Structural: 4 **Rdwy Alignment:** 6
Deck Geometry: 2 **Under Clear:** 9
Waterway: 8 **Scour:** 8

BMS Data for Deck or Paint Candidates:

Element	Description	Total Qty	Unit	CS-1	CS-2	CS-3	CS-4	%BelowCS1
12	Concrete Deck	7200	SF	6480	700	20	0	10
901	Red Lead Alkyd Paint System	10000	SF	2000	5000	3000	0	30

Age and Service Data:

Main/Appr Material Design: 3 10 1 04
Average Daily Traffic Year: 5076 1988
Detour Length (Miles) 1
Year Built and Rebuilt: 1927 0
Historical Significance: 5
Open/Closed/Posted: A
Number of Utilities: 9

Geometric Data:

Br Length: 360 **Curb to Curb** 20
Square feet of deck: 7200
Number of lanes on: 2
Approach Roadway Width: 36

BridgeNo: SUM24204A
Carries: VALLEY AVE:MAIN ST
Fed Func Class: 16

Agency Replacement Comments:

New Super Type: Precast concrete approach girders
New Sub Type: Cast-in-place approach piers on piles
Proposed Work Type: Major Maint-Deck
Proposed work: **How Many Categories:** 1 of 2

Repair/Replace Truss members, deck, spalling concrete, widen approaches to bridge, clean and paint.

Technical Committee Comments:

Project appears to provide for a minimum of 15 years of service.

2003 Spring Major Maintenance Candidates

D or P Ranking: **SR:** 45.45 FO

Bridge Owner Name: Pierce County

Bridge Name: ANDERSON IS FERRY SLIP

Intersecting: BALCH PASSAGE

Strudture ID: 08449800 **Federal Highway:** ON

Latitude: 47° 11' 18" **Longitude:** 122° 39' 48"

Requester: Don Peterson @ 253-798-3147

Total Project Costs and Start Dates:

Projected Cost :	$1,361,800
If Maint Projected Repl:	$6,500,000.00
Preliminary Engineering:	11/1/2003
Right of Way:	
Construction Start:	1/1/2005

Condition Codes:

Deck:	7		
Superstructure:	7	**Substructure:**	8
Inv./Opr. Rating:	22	36	**HS-20 (Tons)**

Adequacy Appraisal Codes:

Structural:	5	**Rdwy Alignment:**	8
Deck Geometry:	2	**Under Clear:**	9
Waterway:	8	**Scour:**	T

BMS Data for Deck or Paint Candidates:

Element	Description	Total Qty	Unit	CS-1	CS-2	CS-3	CS-4	%BelowCS1

Age and Service Data:

Main/Appr Material Design:	5 06	6 01
Average Daily Traffic Year:	675	2001
Detour Length (Miles)	99	
Year Built and Rebuilt:	1984	0
Historical Significance:	4	
Open/Closed/Posted:	A	
Number of Utilities:	0	

Geometric Data:

Br Length:	344	**Curb to Curb**	12
Square feet of deck:	4128		
Number of lanes on:	1		
Approach Roadway Width:	20		

BridgeNo:	33201A
Carries:	YOMAN ROAD
Fed Func Class:	07

Agency Replacement Comments:

New Super Type:

New Sub Type:

Proposed Work Type: Major Maint-EandM

Proposed work: **How Many Categories:** 1 of 1

Replace the pontoon and apron lifting system by changing from a mechanical counterweight system to a hydraulic system.

Technical Committee Comments:

Appears to be a reasonable project.

2003 Spring Major Maintenance Candidates

D or P Ranking: **SR:** 89.49

Bridge Owner Name: Lewis County

Bridge Name: BOISTFORT

Intersecting: S.FORK CHEHALIS RIVER

Strudture ID: 07974100 **Federal Highway:** ON

Latitude: 46° 32' 48" **Longitude:** 123° 7' 54"

Requester: Rod Lakey @ 360-740-2780

Total Project Costs and Start Dates:

Projected Cost :	$70,303
If Maint Projected Repl:	$5,000,000.00
Preliminary Engineering:	7/1/2003
Right of Way:	
Construction Start:	7/1/2004

Condition Codes:

Deck: 8

Superstructure: 8 **Substructure:** 8

Inv./Opr. Rating: 32 55 **HS-20 (Tons)**

Adequacy Appraisal Codes:

Structural: 7 **Rdwy Alignment:** 8

Deck Geometry: 5 **Under Clear:** 9

Waterway: 8 **Scour:** 4

BMS Data for Deck or Paint Candidates:

Element	Description	Total Qty	Unit	CS-1	CS-2	CS-3	CS-4	%BelowCS1

Age and Service Data:

Main/Appr Material Design: 6 02 2 01

Average Daily Traffic Year: 607 2000

Detour Length (Miles) 29

Year Built and Rebuilt: 1982 0

Historical Significance: 5

Open/Closed/Posted: A

Number of Utilities: 0

Geometric Data:

Br Length: 440 **Curb to Curb** 28

Square feet of deck: 12320

Number of lanes on: 2

Approach Roadway Width: 43

BridgeNo: 210000089

Carries: BOISTFORT RD.

Fed Func Class: 07

Agency Replacement Comments:

New Super Type:

New Sub Type:

Proposed Work Type: Major Maint-Scour

Proposed work: **How Many Categories:** 1 of 1

Scour Mitigation

Technical Committee Comments:

2003 Spring Major Maintenance Candidates

D or P Ranking: **SR:** 37.28

Bridge Owner Name: Pend Oreille County

Bridge Name: IONE BRIDGE

Intersecting: PEND OREILLE RIVER

Strudture ID: 08038700 **Federal Highway:** ON

Latitude: 48° 43' 42" **Longitude:** 117° 24' 18"

Requester: Larry Hammel @ 509-447-4513

Total Project Costs and Start Dates:

Projected Cost : $140,000

If Maint Projected Repl: $10,000,000.00

Preliminary Engineering: 1/1/2004

Right of Way:

Construction Start: 6/1/2006

Condition Codes:

Deck: 6

Superstructure: 5 **Substructure:** 5

Inv./Opr. Rating: 15 36 **HS-20 (Tons)**

Adequacy Appraisal Codes:

Structural: 4 **Rdwy Alignment:** 8

Deck Geometry: 4 **Under Clear:** 9

Waterway: 8 **Scour:** 6

BMS Data for Deck or Paint Candidates:

Element	Description	Total Qty	Unit	CS-1	CS-2	CS-3	CS-4	%BelowCS1

Age and Service Data:

Main/Appr Material Design: 3 09 7 02

Average Daily Traffic Year: 1282 1996

Detour Length (Miles) 40

Year Built and Rebuilt: 1932 1967

Historical Significance: 5

Open/Closed/Posted: A

Number of Utilities: 2

Geometric Data:

Br Length: 830 **Curb to Curb** 26

Square feet of deck: 21580

Number of lanes on: 2

Approach Roadway Width: 28

BridgeNo: 9345-0.30

Carries: COUNTY RD NO 93250

Fed Func Class: 07

Agency Replacement Comments:

New Super Type:

New Sub Type:

Proposed Work Type: Major Maint-Strengthen

Proposed work: **How Many Categories:** 1 of 1

Place Helper Girders next to broken girders, band split piles, and clean and repair bearings..

Technical Committee Comments:

There are other repairs due, this addresses only the broken girders, checked pil and bearings.

2003 Spring Major Maintenance Candidates

D or P Ranking: | **SR:** 69.2 FO

Bridge Owner Name: Ferry County

Bridge Name: TORODA

Intersecting: KETTLE RIVER

Strudture ID: 08371000 **Federal Highway:** ON

Latitude: 48° 55' 17" **Longitude:** 118° 45' 6"

Requester: Keith Muggoch @ 509-775-5223

Total Project Costs and Start Dates:

Projected Cost :	$60,000
If Maint Projected Repl:	$2,400,000.00
Preliminary Engineering:	12/1/2003
Right of Way:	
Construction Start:	8/1/2004

Condition Codes:

Deck:	6		
Superstructure:	6	**Substructure:**	6
Inv./Opr. Rating:	27	36	**HS-20 (Tons)**

Adequacy Appraisal Codes:

Structural:	6	**Rdwy Alignment:**	6
Deck Geometry:	2	**Under Clear:**	9
Waterway:	8	**Scour:**	8

BMS Data for Deck or Paint Candidates:

Element	Description	Total Qty	Unit	CS-1	CS-2	CS-3	CS-4	%BelowCS1

Age and Service Data:

Main/Appr Material Design:	4 02	0 00
Average Daily Traffic Year:	609	1989
Detour Length (Miles)	19	
Year Built and Rebuilt:	1950	0
Historical Significance:	4	
Open/Closed/Posted:	P	
Number of Utilities:	0	

Geometric Data:

Br Length:	213	**Curb to Curb**	19.8
Square feet of deck:	4217		
Number of lanes on:	2		
Approach Roadway Width:	28		

BridgeNo: 1

Carries: W KETTLE RIV ROAD

Fed Func Class: 07

Agency Replacement Comments:

New Super Type:

New Sub Type:

Proposed Work Type: Major Maint-Strengthen

Proposed work: **How Many Categories:** 1 of 1

Strengthening of lower chord by adding 30' of additional cover plates and painting the new steel.

Technical Committee Comments:

Good strengthening project for the cost.

2003 Spring Major Maintenance Candidates

D or P Ranking: 51.5021[illegible] 4.807692[illegible] **SR:** 42.1 FO
Bridge Owner Name: SUMNER
Bridge Name: STUCK RIVER
Intersecting: STUCK RIVER
Strudture ID: 08541900 **Federal Highway:** ON
Latitude: 47° 12' 15.4" **Longitude:** 122° 14' 46.1"
Requester: Mike Dahlem @ 253-891-3308

Total Project Costs and Start Dates:

Projected Cost :	$300,000
If Maint Projected Repl:	$6,000,000.00
Preliminary Engineering:	11/1/200[illegible]
Right of Way:	4/1/2004
Construction Start:	10/1/200[illegible]

Condition Codes:

Deck: 6
Superstructure: 5 **Substructure:** 6
Inv./Opr. Rating: 20 20 **HS-20 (Tons)**

Adequacy Appraisal Codes:

Structural: 4 **Rdwy Alignment:** 6
Deck Geometry: 2 **Under Clear:** 9
Waterway: 8 **Scour:** 8

BMS Data for Deck or Paint Candidates:

Element	Description	Total Qty	Unit	CS-1	CS-2	CS-3	CS-4	%BelowCS1
12	Concrete Deck	7200	SF	6480	700	20	0	10
901	Red Lead Alkyd Paint System	10000	SF	2000	5000	3000	0	30

Age and Service Data:

Main/Appr Material Design: 3 10 1 04
Average Daily Traffic Year: 5076 1988
Detour Length (Miles) 1
Year Built and Rebuilt: 1927 0
Historical Significance: 5
Open/Closed/Posted: A
Number of Utilities: 9

Geometric Data:

Br Length: 360 **Curb to Curb** 20
Square feet of deck: 7200
Number of lanes on: 2
Approach Roadway Width: 36

BridgeNo: SUM24204A
Carries: VALLEY AVE:MAIN ST
Fed Func Class: 16

Agency Replacement Comments:

New Super Type: Precast concrete approach girders
New Sub Type: Cast-in-place approach piers on piles
Proposed Work Type: Major Maint-Paint
Proposed work: **How Many Categories:** 2 of 2

Repair/Replace Truss members, deck, spalling concrete, widen approaches to bridge, clean and paint.

Technical Committee Comments:

Project appears to provide for a minimum of 15 years of service.

2003 Spring Major Maintenance Candidates

D or P Ranking: 12.345679 **SR:** 55.61
Bridge Owner Name: Lewis County
Bridge Name: PACKWOOD
Intersecting: COWLITZ
Strudture ID: 08201200 **Federal Highway:** ON
Latitude: 46° 36' 48" **Longitude:** 121° 40' 56"
Requester: Rod Lakey @ 360-740-2780

Total Project Costs and Start Dates:

Projected Cost : $300,000
If Maint Projected Repl: $4,500,000.00
Preliminary Engineering:
Right of Way:
Construction Start: 6/1/2006

Condition Codes:

Deck: 6
Superstructure: 7 **Substructure:** 7
Inv./Opr. Rating: 28 46 **HS-20 (Tons)**

Adequacy Appraisal Codes:

Structural: 6 **Rdwy Alignment:** 8
Deck Geometry: 4 **Under Clear:** 9
Waterway: 8 **Scour:** 3

BMS Data for Deck or Paint Candidates:

Element	Description	Total Qty	Unit	CS-1	CS-2	CS-3	CS-4	%BelowCS1
901	Red Lead Alkyd Paint System	4500	SF	3050	1000	450	0	10

Age and Service Data:

Main/Appr Material Design: 3 10 1 20
Average Daily Traffic Year: 1712 2000
Detour Length (Miles) 79
Year Built and Rebuilt: 1953 1964
Historical Significance: 4
Open/Closed/Posted: A
Number of Utilities: 0

Geometric Data:

Br Length: 392 **Curb to Curb** 26
Square feet of deck: 10192
Number of lanes on: 2
Approach Roadway Width: 29

BridgeNo: 210000012
Carries: SKATE CR.RD
Fed Func Class: 07

Agency Replacement Comments:

New Super Type:
New Sub Type:
Proposed Work Type: Major Maint-Paint
Proposed work: **How Many Categories:** 1 of 1

Cleaning and Painting of all metal surfaces. Containment and disposal of all sand blast material, repair and heat straightening

Technical Committee Comments:

Good paint project